BRUHAT BANGALORE MAHANAGARA PALIKE
BYATARAYANAPURA DIVISION

Name of Work: Improvements to roads and drains from Bhuvaneshwarinagar Park via Gopalappa Layout to Cofee board Layout Park Road and Surrounding areas (Cubic Apartments Area) in Ward No.7,Byatarayanapura

3RD & PART BILL

DETAILED MEASUREMENT

TEJUS CONSULTANTS
CONSULTING ENGINEERS AND DESIGNERS
No.58 MIG, 6th Cross, 3rd Main
1st Stage, Basaveshwaranagar
Bangalore-560079
☎ 080 - 23287532
email: tejusconsultants@gmail.com

Bruhat Bengaluru Mahanagara Palike

Bytarayanapura Division

Job Code :- 007-18-000109, 007-18-000110, 007-18-000111, 007-18-000112, 007-18-000113, 007-18-000114, 007-18-000115, 007-18-000116, 007-18-000117, 007-18-000118, 007-18-000119, 007-18-000120, 007-18-000121, 007-18-000122, 28873

Bill No :- 3rd & Part Bill

Name of Agency :- Benaka Developers & Project Pvt.Ltd.

Name Of work :- Improvements to roads and drains from Bhuvaneshwarinagar Park via Gopalappa Layout to Cofee board Layout Park Road and Surrounding areas (Cubic Apartments Area) in Ward No.7,Byatarayanapura

BOQ Item No	Description / Chainage		Side	Nos	Length	Width B1	Width B2	Width Avg width	Depth	Quantity	Remarks
1	KSRRB M300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface levelled and sides neately dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specification. MORTH / Chapter 3 (P.No.142, I.No.19.1 of PW, P&IWTD SR 2016-17)										
	St Anthony Church Road										
	RHS										
	0.00	15.00	R/S	1	15.00			0.90	1.05	14.18	
	15.00	30.00	R/S	1	15.00			0.90	1.05	14.18	
	30.00	45.00	R/S	1	15.00			0.90	1.05	14.18	
	45.00	60.00	R/S	1	15.00			0.90	1.05	14.18	
	60.00	75.00	R/S	1	15.00			0.90	1.05	14.18	
	75.00	90.00	R/S	1	15.00			0.90	1.05	14.18	
	90.00	105.00	R/S	1	15.00			0.90	1.00	13.50	
	105.00	120.00	R/S	1	15.00			0.90	1.00	13.50	
	120.00	135.00	R/S	1	15.00			0.90	1.00	13.50	
	135.00	140.00	R/S	1	5.00			0.90	1.00	4.50	
								Total Quantity		**130.05**	**Cum**

NDA 25/11/19

25/11/19

Consultant

Contractor

Assistant Engineer

Assistant Executive Engineer

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

Bill No :- 3rd & Part Bill

Name of Agency :- Benaka Developers & Project Pvt.Ltd.

Name Of work :- Improvements to roads and drains from Bhuvaneshwarinagar Park via Gopalappa Layout to Cofee board Layout Park Road and Surrounding areas (Cubic Apartments Area) in Ward No.7,Byatarayanapura

BOQ Item No	Description / Chainage		Side	Nos	Length	Width B1	Width B2	Width Avg width	Depth	Quantity	Remarks
10	KSRB 4-1.2: Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.892 cum and fine aggregates @ 0.465 cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.12, I.No.4.2 of PW,P&IWTD S.R 2016-17)									
	St Anthony Church Road										
	RHS										
	0.00	15.00	R/S	1	15.00			0.90	0.15	2.03	
	15.00	30.00	R/S	1	15.00			0.90	0.15	2.03	
	30.00	45.00	R/S	1	15.00			0.90	0.15	2.03	
	45.00	60.00	R/S	1	15.00			0.90	0.15	2.03	
	60.00	75.00	R/S	1	15.00			0.90	0.15	2.03	
	75.00	90.00	R/S	1	15.00			0.90	0.15	2.03	
	90.00	105.00	R/S	1	15.00			0.90	0.15	2.03	
	105.00	120.00	R/S	1	15.00			0.90	0.15	2.03	
	120.00	135.00	R/S	1	15.00			0.90	0.15	2.03	
	135.00	140.00	R/S	1	5.00			0.90	0.15	0.68	NDB 14/12/19
								Total Quantity		**18.90**	**Cum**

Verified 14/12/19

Consultant

Contractor

A.N.D
Assistant Engineer

Assistant Executive Enginner

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mananagara Pal
Bangalore - 560 09

Bill No :- 3rd & Part Bill

Name of Agency :- Benaka Developers & Project Pvt.Ltd.

Name Of work :- Improvements to roads and drains from Bhuvaneshwarinagar Park via Gopalappa Layout to Cofee board Layout Park Road and Surrounding areas (Cubic Apartments Area) in Ward No.7,Byatarayanapura

BOQ Item No	Description / Chainage		Side	Nos	Length	Width B1	Width B2	Width Avg width	Depth	Quantity	Remarks
11	KSRB 4-6.1: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specifications. Specifcation No. KBS 4.6.2 (P.No.15, I.No.4.28 of PW, P&IWTD SR 2016-17)										
	St Anthony Church Road										
	RHS										
	For Bottom Raft										
	0.00	15.00	R/S	2	15.00				0.15	4.50	
	15.00	30.00	R/S	2	15.00				0.15	4.50	
	30.00	45.00	R/S	2	15.00				0.15	4.50	
	45.00	60.00	R/S	2	15.00				0.15	4.50	
	60.00	75.00	R/S	2	15.00				0.15	4.50	
	75.00	90.00	R/S	2	15.00				0.15	4.50	
	90.00	105.00	R/S	2	15.00				0.15	4.50	
	105.00	120.00	R/S	2	15.00				0.15	4.50	
	120.00	135.00	R/S	2	15.00				0.15	4.50	
	135.00	140.00	R/S	2	5.00				0.15	1.50	
	Cast In Situ Slab										
				1	5.00			1.10		5.50	
								Total Quantity		**47.50**	
								Quantity Limited to		**24.00**	**Sqm**

Consultant

Contractor

Assistant Engineer

Assistant Executive Enginner
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara
Bangalore - 560

Bill No :- 3rd & Part Bill

Name of Agency :- Benaka Developers & Project Pvt.Ltd.

Name Of work :- Improvements to roads and drains from Bhuvaneshwarinagar Park via Gopalappa Layout to Cofee board Layout Park Road and Surrounding areas (Cubic Apartments Area) in Ward No.7,Byatarayanapura

BOQ Item No	Description / Chainage		Side	Nos	Length	Width B1	Width B2	Width Avg width	Depth	Quantity	Remarks
12	KSRB 4-6.4: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surfaces such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification No.KBS 4.6.2 (P.No.15, I.No.4.31 of PW,P&IWTD SR 2016-										
	St Anthony Church Road										
	RHS										
	0.00	15.00	R/S	4	15.00				0.75	45.00	
	15.00	30.00	R/S	4	15.00				0.75	45.00	
	30.00	45.00	R/S	4	15.00				0.75	45.00	
	45.00	60.00	R/S	4	15.00				0.75	45.00	
	60.00	75.00	R/S	4	15.00				0.75	45.00	
	75.00	90.00	R/S	4	15.00				0.75	45.00	
	90.00	105.00	R/S	4	15.00				0.70	42.00	
	105.00	120.00	R/S	4	15.00				0.70	42.00	
	120.00	135.00	R/S	4	15.00				0.70	42.00	
	135.00	140.00	R/S	4	5.00				0.70	14.00	
								Total Quantity		**410.00**	
								Quantity Limited To		**172.80**	**Sqm**

Consultant

Contractor

Assistant Engineer

Assistant Executive Enginner

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mananagara Palike
Bangalore - 560 092

Bill No :- 3rd & Part Bill

Name of Agency :- Benaka Developers & Project Pvt.Ltd.

Name Of work :- Improvements to roads and drains from Bhuvaneshwarinagar Park via Gopalappa Layout to Cofee board Layout Park Road and Surrounding areas (Cubic Apartments Area) in Ward No.7,Byatarayanapura

BOQ Item No	Description / Chainage		Side	Nos	Length	Width B1	Width B2	Width Avg width	Depth	Quantity	Remarks
13	Providing and laying cement concrete using 20mm and downsize granite coarse aggregates and fine aggregates of ready mixed concrete (RMC) for RCC works laid in 15cms thick layers and well compacted vibrating, curing, finishing with necessary cement mortar, with all lead and lifts etc., complete (exclusive of cpost of steel and fabricaton charges). Ready Mixed Cement Concrete M 20 for Raft foundation, Column, Footing, main and secondary beams. (P.No.18, I.No.4.48 of PW, P&IWTD SR 2016-17)										
	St Anthony Church Road										
	RHS										
	For Bottom Raft										
	0.00	15.00	R/S	1	15.00			0.90	0.15	2.03	
	15.00	30.00	R/S	1	15.00			0.90	0.15	2.03	
	30.00	45.00	R/S	1	15.00			0.90	0.15	2.03	
	45.00	60.00	R/S	1	15.00			0.90	0.15	2.03	
	60.00	75.00	R/S	1	15.00			0.90	0.15	2.03	
	75.00	90.00	R/S	1	15.00			0.90	0.15	2.03	
	90.00	105.00	R/S	1	15.00			0.90	0.15	2.03	
	105.00	120.00	R/S	1	15.00			0.90	0.15	2.03	
	120.00	135.00	R/S	1	15.00			0.90	0.15	2.03	
	135.00	140.00	R/S	1	5.00			0.90	0.15	0.68	
	Side Wall										
	0.00	15.00	R/S	2	15.00			0.15	0.75	3.38	
	15.00	30.00	R/S	2	15.00			0.15	0.75	3.38	
	30.00	45.00	R/S	2	15.00			0.15	0.75	3.38	
	45.00	60.00	R/S	2	15.00			0.15	0.75	3.38	
	60.00	75.00	R/S	2	15.00			0.15	0.75	3.38	
	75.00	90.00	R/S	2	15.00			0.15	0.75	3.38	
	90.00	105.00	R/S	2	15.00			0.15	0.70	3.15	
	105.00	120.00	R/S	2	15.00			0.15	0.70	3.15	
	120.00	135.00	R/S	2	15.00			0.15	0.70	3.15	
	135.00	140.00	R/S	2	5.00			0.15	0.70	1.05	
	Cast In Situ Slab			1	5.00			1.10	0.20	1.10	
								Total Quantity		**50.75**	
								Quantity Limited To		**38.40**	**Cum**

NDP 16/12

NDP 3/1/2020

Consultant

Contractor

Assistant Engineer

Assistant Executive Enginner

Assistant Executive Engin
Kodigehalli Sub Division
Bruhat Bangalore Mahanag
Bangalore - 56

Bill No :- 3rd & Part Bill

Name of Agency :- Benaka Developers & Project Pvt.Ltd.

Name Of work :- Improvements to roads and drains from Bhuvaneshwarinagar Park via Gopalappa Layout to Cofee board Layout Park Road and Surrounding areas (Cubic Apartments Area) in Ward No.7,Byatarayanapura

BOQ Item No	Description / Chainage	Side	Nos	Length	Width B1	Width B2	Width Avg width	Depth	Quantity	Remarks
14	KSRB - 4.9.2: Providing TMT steel reinforcement Fe500 for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3. (P.No.17, I.No.4.46.2 of PW, P&IWTD SR 2016-17)									
	St Anthony Church Road									
	RHS									
	Main Bars									
	10 mm dia Bars		700.00	2.40				0.62	1037.04	
	Distribution Bars									
	8 mm Dia Bars		15.00	140.00				0.40	829.63	
	Cast In Situ Slab									
	Main Bars									
	10 mm dia Bars		25.00	1.10				0.62	16.98	
	Distribution Bars									
	8 mm Dia Bars		6.00	5.00				0.40	11.85	
									1895.49	
								Total Quantity	**1.90**	**Cum.**

Cube 16/12/19

NDP 16/12/19

Consultant

Contractor

Assistant Engineer

Assistant Executive Enginner

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara P
Bangalore - 560 092

Bill No :- 3rd & Part Bill

Name of Agency :- Benaka Developers & Project Pvt.Ltd.

Name Of work :- Improvements to roads and drains from Bhuvaneshwarinagar Park via Gopalappa Layout to Cofee board Layout Park Road and Surrounding areas (Cubic Apartments Area) in Ward No.7,Byatarayanapura

BOQ Item No	Description / Chainage		Side	Nos	Length	Width B1	Width B2	Width Avg width	Depth	Quantity	Remarks
20	Providing and fixing RCC Precast cover slab of 100mm thick for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)										
	St Anthony Church Road										
	RHS										
	19.00	36.00	R/S	28				0.90	0.60	15.30	
	36.00	41.00	R/S	8				0.90	0.60	4.50	
	41.00	60.00	R/S	25				0.90	0.60	13.50	
	60.00	75.00	R/S	25				0.90	0.60	13.50	
	75.00	90.00	R/S	20				0.90	0.60	10.80	
	90.00	105.00	R/S	25				0.90	0.60	13.50	
	105.00	120.00	R/S	20				0.90	0.60	10.80	
	120.00	135.00	R/S	25				0.90	0.60	13.50	
	135.00	140.00	R/S	8				0.90	0.60	4.50	
								Total Quantity		**99.90**	**Sqm**

Checked 18/3/2020

NDP DE(HQ) 18/3/2020

Consultant

Contractor

Assistant Engineer

Assistant Executive Enginner

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

Bill No :- 3rd & Part Bill

Name of Agency :- Benaka Developers & Project Pvt.Ltd.

Name Of work :- Improvements to roads and drains from Bhuvaneshwarinagar Park via Gopalappa Layout to Cofee board Layout Park Road and Surrounding areas (Cubic Apartments Area) in Ward No.7,Byatarayanapura

BOQ Item No	Description / Chainage		Side	Nos	Length	Width B1	Width B2	Width Avg width	Depth	Quantity	Remarks
33	Providing and fixing Pre cast solid concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including formwork, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete (P.No.25, I.No.5.30 of PW,P&IWTD S.R 2016-17)										
	St Anthony Church Road										
	RHS										
	0.00	19.00	R/S	1	15.00				/0.45	33.00	
	19.00	36.00	R/S	1	15.00				/0.45	33.00	
	36.00	41.00	R/S	0	5.00				/0.45	0.00	culvert
	41.00	60.00	R/S	1	10.00				/0.45	22.00	
	60.00	75.00	R/S	1	11.00				/0.45	24.00	
	75.00	90.00	R/S	1	12.00				/0.45	27.00	
	90.00	105.00	R/S	1	15.00				/0.45	33.00	
	105.00	120.00	R/S	1	15.00				/0.45	33.00	
	120.00	135.00	R/S	1	15.00				/0.45	33.00	
	135.00	140.00	R/S	1	5.00				/0.45	11.00	
								Total Quantity		**249.00**	**No**

AE 18/3

Consultant

Contractor

Assistant Engineer

Assistant Executive Enginner

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092